

Warranty

LaRue Tactical will replace all items rendered unserviceable under general use. Warranty does not apply to any problems or failures that arise from improper maintenance, improper storage, improper repair, or any modification, other those performed by LaRue Tactical.

Repair to damage outside of these terms is not the responsibility of LaRue Tactical, and will be handled on an individual basis.

Manufactured By:



850 County Road 177, Leander, Texas USA 78641
512-259-1585 www.larue.com

ISSUED: Oct 2015

TM OBR-LT556

OPERATOR'S MANUAL

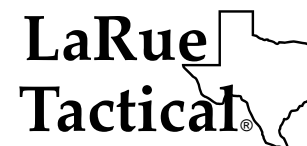
RIFLE, LARUE TACTICAL OBR 556, 5.56-MM



**PLEASE READ ALL INSTRUCTIONS
AND WARNINGS IN THIS MANUAL
BEFORE USING THIS FIREARM**

**USE PREMIUM AMMUNITION ONLY (ESPECIALLY
NO STEEL-CASED AMMO). FAILURE TO USE THE
CORRECT TYPE OF AMMUNITION MAY CAUSE
OPERATION FAILURES, DAMAGE, INJURY, OR
PROPERTY DAMAGE.**

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BEWARE OF DANGEROUS PROCEDURES

Be sure the cam pin is installed in the bolt group. If it isn't, your rifle can still fire and will explode, causing serious injury. If you are unsure of what the cam pin is please see disassembly instructions on pg 8

If your rifle stops firing with a live round in the chamber of a hot barrel (misfire), remove the round fast. However, if you cannot remove it within 10 seconds, remove magazine and wait 15 minutes with the rifle pointing in a safe direction. This way you won't get hurt by a possible round cooking-off. Regardless, keep your face away from the ejection port while clearing a hot chamber.

Use only authorized ammo that is manufactured to U.S. or NATO specifications.

If your bolt fails to unlock, you may try to free it by grasping the charging handle, and banging the buttstock on the ground (keeping yourself clear of the muzzle).

If there's water in the barrel, do not fire the rifle. It could explode.

If a noticeable difference in sound or recoil is experienced, STOP firing. Either condition could indicate an incomplete powder burn and/or a bullet stuck in the bore.

THE FUNDAMENTAL RULES FOR SAFE GUN HANDLING ARE:

1. **ALWAYS** keep the gun pointed in a safe direction. Consider every firearm loaded. Never point the muzzle at anything you do not intend to shoot.
2. **ALWAYS** keep your finger off the trigger until ready to shoot.
3. **ALWAYS** keep the gun unloaded until ready to use.
4. Know your target and what is beyond.
5. Know how to use the gun safely.
6. Be sure the gun is safe to operate.
7. Use only the correct ammunition for your gun.
8. Wear eye and ear protection as appropriate.
9. Never use alcohol or over-the-counter, prescription or other drugs before or while shooting.
10. Store guns so they are not accessible to unauthorized persons.
11. Be aware that certain types of guns and many shooting activities require additional safety precautions.

Warning!

Firearms have been determined to be dangerous and potentially lethal weapons subject to restrictions.

Possession of this or any firearm indicates your acceptance of responsibility to comply with the law and prevent consequences of danger which can result from improper handling.

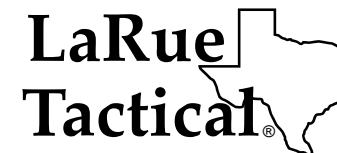
TM OBR-LT556 OPERATOR'S MANUAL

RIFLE, LARUE TACTICAL, OBR, 5.56-MM

WARNING

**PLEASE READ THESE INSTRUCTIONS
AND ALL OF THE WARNINGS CAREFULLY!**

Make sure you completely understand all the contents of this document before you use this firearm. Failure to do so may result in serious injury or death to you and others.



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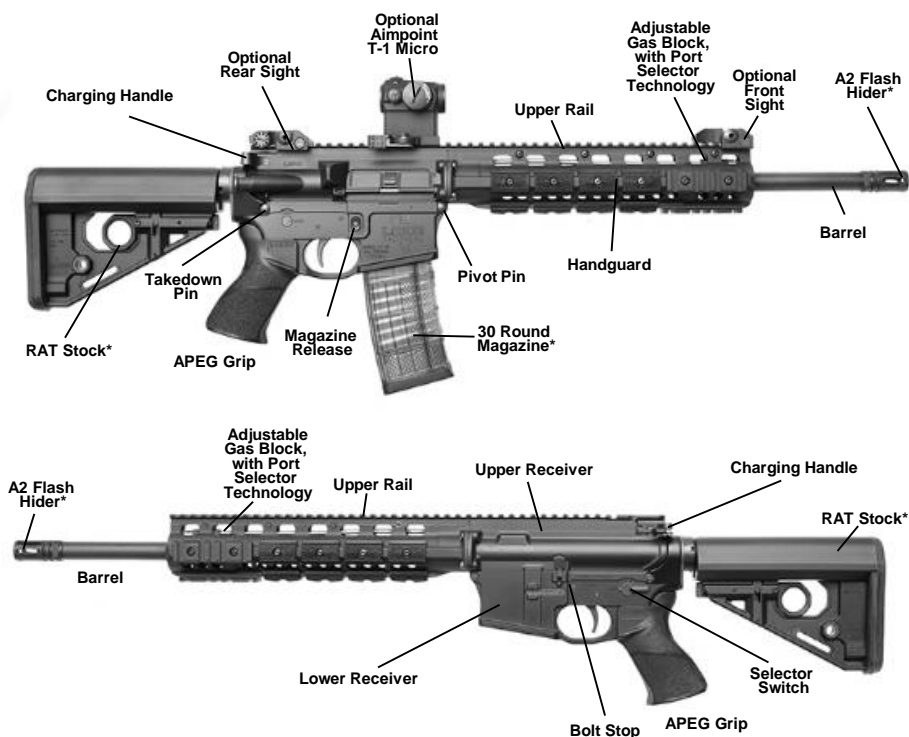
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WARNINGS IN THIS
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THIS FIREARM**

Section 1: OBR 556 Overview

The LaRue OBR 556 (Optimized Battle Rifle) was built from the ground up, using a newly designed upper receiver platform. Both the upper and lower are CNC-machined from billet, for the optimum fit and consistency. Machined from billet aluminum, the receiver components are designed with more material in critical areas to alleviate known issues of weakness in 5.56 platforms and to stiffen the receiver....translating into maximum accuracy. The barrels are available in 12", 16.1", 18" & 20" lengths.

The upper-rail provides generous room for all issue weapon-mounted night-vision day/night combinations (suitable for 5.56 MM). The built-in cant provides correct ballistic orientation for all inline night vision combinations. The MIL-STD-1913 side rails are detachable, so that they can be configured for Vis / IR illuminators, etc, or left off to keep rails pristine, without the need for bulky rail covers. The bottom rails are also detachable, and can be positioned anywhere along the entire lower length, for the interface of MIL-STD-1913 equipped bipods, grips, tripod mounts, etc. These rails are offered as spare parts for field-service replacement, keeping repair cost at a minimum.



** Configuration subject to State and local laws*

Section 2: Specifications

Caliber: 5.56x45mm NATO

Upper Rail Built-in Cant: 10 MOA on Upper Rail, Rear BUIS rail 0 MOA

Barrel Lengths Available: 12", 16.1", 18", 20".

Rifling Twist Rate: 1/8

Muzzle Thread Configuration: ½ x 28*

Gas System: Direct Impingement with (PST) Port-Selector Technology™

Gas Block: LaRue PST™, for use with or without a sound suppressor.

Trigger Group: LaRue MBT-2S

Magazine Capacity: 30 Rounds *

Rate of Fire: Semi automatic

** Except where restricted by State and Local Laws.*

WARNING: ONLY USE QUALITY MATCH-GRADE FACTORY AMMUNITION. FAILURE TO USE THE CORRECT TYPE OF AMMUNITION MAY CAUSE OPERATION FAILURES, DAMAGE, INJURY, OR PROPERTY DAMAGE.

NO STEEL CASED AMMO!

Section 3: Clearing Rifle

1. Point in **SAFE DIRECTION!** Place selector on SAFE. If weapon is not cocked, the safety lever cannot be pointed towards SAFE.
2. If magazine is present in the mag well, press catch button and remove the magazine.
3. To lock bolt open, pull charging handle rearward. Press bottom of bolt catch and allow bolt to move forward until it engages bolt catch. Return charging handle to its forward position.
4. Check receiver and chamber to ensure these areas are clear of ammunition.
5. Allow bolt to go forward by pressing upper portion of bolt catch.



Check receiver and chamber



Section 4: Disassembly of Rifle

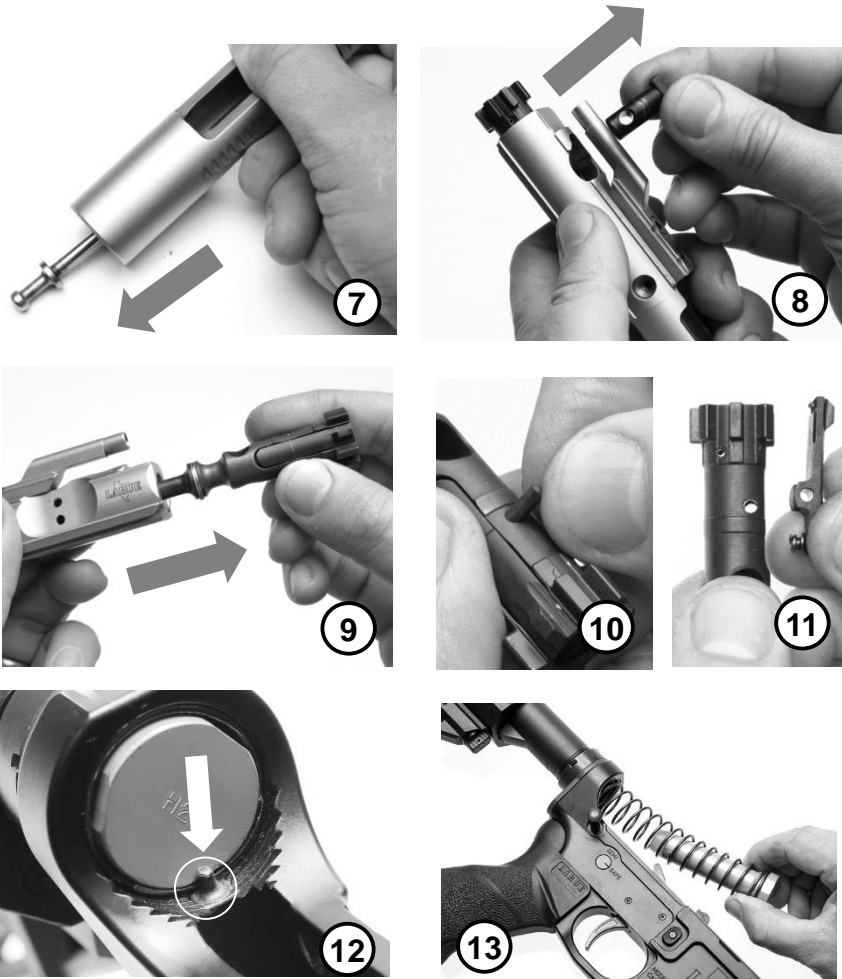
Clear your rifle (as per Section 3).

1. Push takedown pin.
2. Push pivot pin.
3. Separate upper and lower receivers.
4. Pull back on the charging handle, removing the bolt carrier group and charging handle from the receiver.
5. Remove firing pin retaining pin.
6. Pull bolt assembly into locked position.



Section 4: Disassembly (continued)

7. Remove bolt cam pin.
8. Drop firing pin out rear of bolt carrier.
9. Remove bolt assembly from carrier.
10. Remove extractor pin.
11. Remove extractor and spring.
12. Press in buffer, push down and hold buffer retainer pin.
13. While holding down buffer retaining pin, remove buffer and buffer spring.



Section 5: Cleaning of Rifle

Even though the OBR 5.56 is designed for hard use in battlefield environments, and can function adequately for thousands of rounds between cleaning, we recommend users field-strip and clean the OBR 5.56 after every live-fire session for optimal accuracy and performance.

A clean chamber is critical for optimum reliability. We recommend that a chamber brush and solvent is used to break-up carbon and foreign matter, followed up with a clean patch after every live-fire session.

With the rifle disassembled, thoroughly clean and inspect all components, then lubricate all moving components with a light coat of CLP. Wipe dry according to your selected lubricant's instructions.



Section 6: Bolt Carrier Group Inspection

Inspect before lubricating

DO NOT interchange bolts between rifles.

Firing Pin:

Replace if it is bent, cracked or blunted.

Firing Pin Retaining Pin:

Replace if bent or worn, or shows signs of cracks.

Bolt:

Replace if there are cracks or fractures, especially in the cam pin hole area. Bolts that contain pits extending into the firing pin hole need replacing.

Extractor:

Check for chipped or broken edges in the area that engages the bullet case. Replace if there are any chips or broken edges.



Section 7: Routine Lubrication

Bolt:

Lightly lubricate all bolt and bolt carrier surfaces.

Upper receiver:

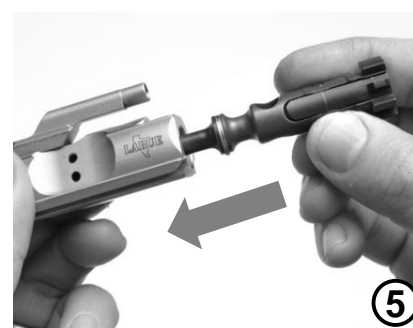
Lightly lube inside of upper receiver bore, chamber and outer surfaces.

Lower Receiver:

Lightly lube the inside of the lower receiver, trigger group, magwell, buffer, and buffer spring.

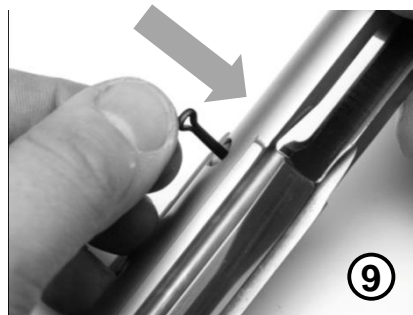
Section 8: Reassembly

1. Insert buffer spring and buffer until captured by buffer stop.
2. Insert extractor and spring into bolt. If the spring comes loose, put the large end of spring in the extractor and seat it.
3. Push extractor pin into bolt.
4. Stagger gas ring gaps to stop gas loss.
5. Slide bolt into the front of the carrier.
6. Replace bolt cam pin with hole facing forward (so firing pin can drop through).



Section 8: Reassembly (continued)

7. Pull bolt out.
8. Replace firing pin. Make sure it passes through the cam pin hole.
9. Replace firing pin retaining pin, Insert charging handle into receiver.
10. Slide bolt carrier group into receiver until fully seated.
11. Join upper and lower receivers.
12. Push-in pivot pin.
13. Push-in takedown pin.



Section 9: Function Check

BE SURE TO REMOVE MAGAZINE AND CLEAR WEAPON

SAFE

Pull charging handle to rear and release.
Place on SAFE.
Pull trigger, hammer should not fall.



SEMI

Pull charging handle to rear and release.
Place selector lever in SEMI.
Pull trigger, hammer should fall.



Pull charging handle to rear and release.
Pull trigger and hold to rear, hammer should fall.
Continue to hold trigger to the rear. Pull charging handle to rear and release.
Release trigger and pull again. Hammer should fall.



Section 10: Loading

Make sure firearm selector switch is on SAFE.

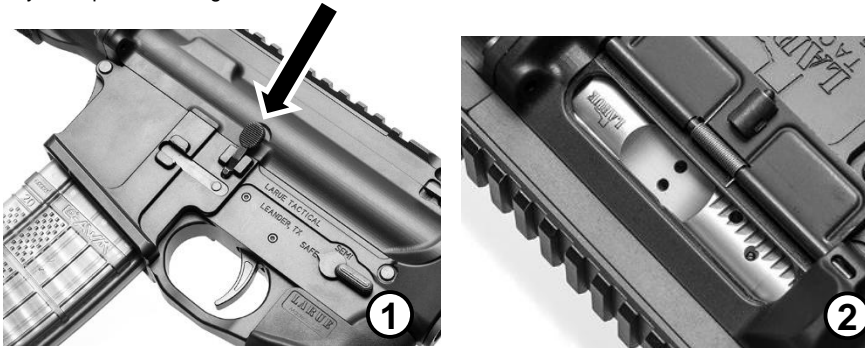
Push loaded magazine upward into magwell until magazine catch engages and holds magazine. Tap base upward to ensure it's seated correctly.

1. If bolt is locked open, depress upper portion of bolt catch, allowing bolt to go forward.
2. Inspect to ensure bolt is fully forward and locked.

or

1. Pull charging handle fully rearward and let it snap forward. Never "ride" the charging handle. Let it go forward on its own.
2. Inspect to ensure bolt is fully forward and locked.

NOTE: If rifle is not to be fired immediately, close ejection port cover. Use only Mil-Spec 5.56 magazines.



OR



Section 11: Firing

1. Load and make sure the selector switch is on SAFE.

Grip OBR 556 by pistol grip with one hand and the handguard with the other.. Keep your trigger finger outside of the trigger guard, and off of the trigger. Press the buttstock firmly into shoulder and position head on stock to get a sight-picture on your intended target.

2. With your thumb, rotate the selector switch to SEMI.
3. With the rifle aimed at the intended target, place your index finger on the trigger and gently squeeze until the rifle fires. Another cartridge will automatically load into the chamber after firing, until the magazine is empty.

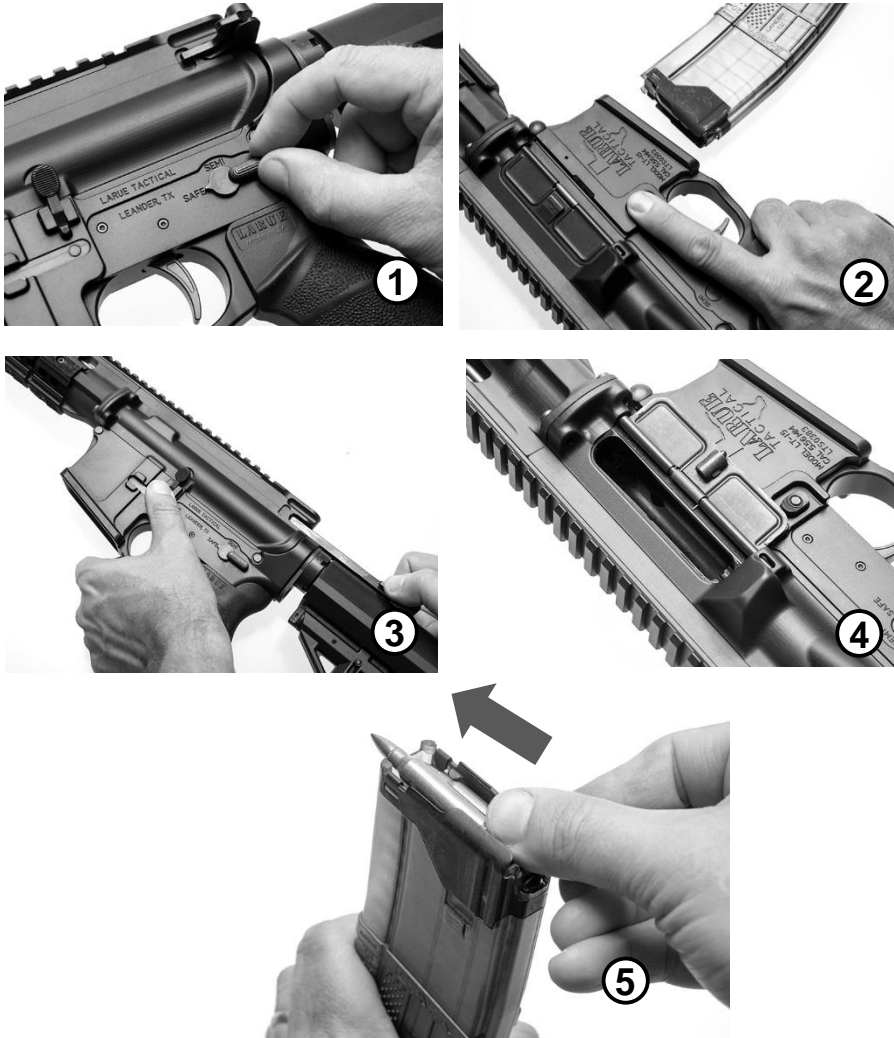
When you stop firing, place the selector switch on SAFE.

4. If you have fired all the ammunition in the magazine, the bolt will automatically be held to the rear by the bolt catch.



Section 12: Unloading

1. Make sure firearm selector switch is on **SAFE**.
2. Press magazine release button and magazine will drop from magwell.
3. Pull charging handle fully rearward and eject the chambered cartridge.
4. Inspect chamber, to ensure chamber is empty.
5. Remove remaining live ammunition from the magazine by sliding them forward by hand, and removing them from the magazine.



Section 13: Immediate Action Drills

WARNING: IF YOUR FIREARM STOPS WORKING PROPERLY, OR IS SHOWING UNUSUAL MALFUNCTIONS...STOP FIRING, MAKE SURE IT IS IN A SAFE DIRECTION, UNLOAD IT AND CONTACT A LARUE TACTICAL REPRESENTATIVE ASAP.

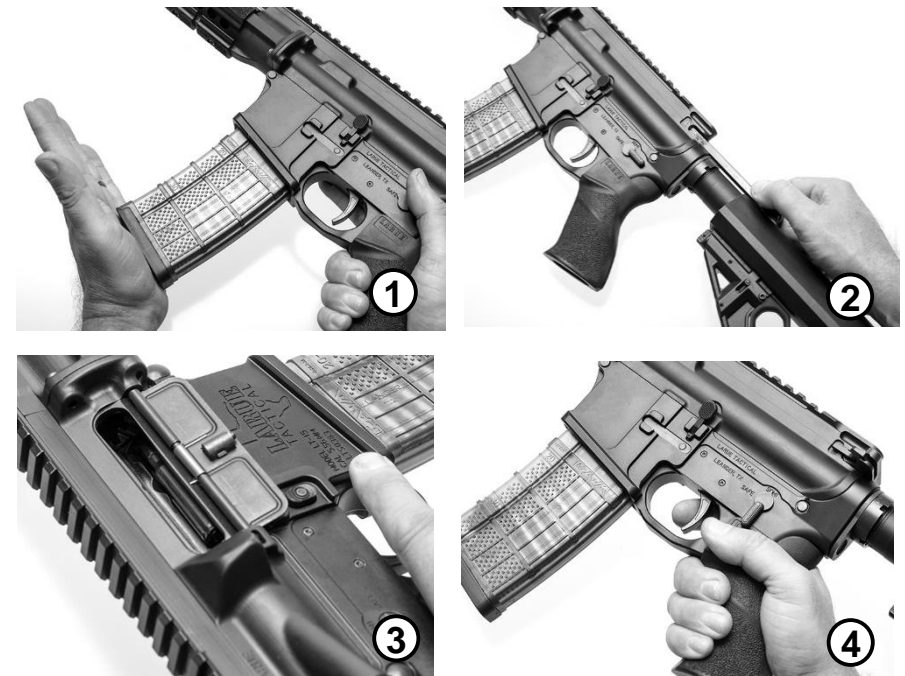
If your rifle is operating properly, yet a cartridge fails to fire, perform the following immediate actions:

1. **SLAP** upward on magazine to make sure it's properly seated.
2. **PULL** charging handle all the way back.
3. **OBSERVE** ejection of cartridge. Check chamber for obstruction.

*If cartridge or case is ejected or chamber is clear: **RELEASE** charging handle to feed new round. Don't ride the charging handle forward.*

4. **FIRE.**

If the rifle won't fire, inspect action for other trouble, or contact a LaRue Tactical Representative.



Section 14: Installing Modular Rail Panels

The OBR 556's handguard has several threaded steel inserts along the bottom and sides, to provide anchor-points for the supplied rail panels.

The rail panels can be used for accessories such as bipods, weapon lights, lasers and vertical grips. Each OBR 556 comes delivered with three rail panels, mounting hardware and hex wrench.

PROCEDURE:

1. Line up rail panel where you intend to attach, being careful to line-up the holes with the threaded inserts.



2. Install, and tighten the supplied pair of mounting screws.

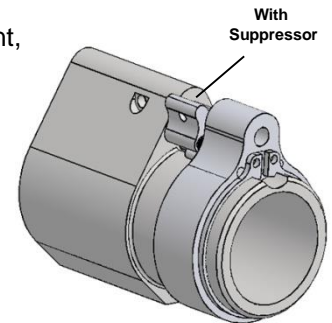


Section 15: Adjusting the Gas Block Port Selector Technology™ (PST)

The OBR's gas block is adjustable, to aid in the optimum function when using a sound suppressor. This special gas block contains a dual port mechanism that is operated by rotating a lever from one side to another. When the lever is rotated to the right-side of the rifle (when behind the rifle), the gasses are reduced, to compensate for the extra blowback created by the suppressor. When rotated to the left side, the gasses are increased for use without a suppressor.

The switch is held firmly in-place with a ball detent, and requires no maintenance other than a small application of CLP on the moving parts when you clean and lubricate the entire firearm.

Note: If you are not using a sound suppressor, there is no need to operate or adjust this mechanism.



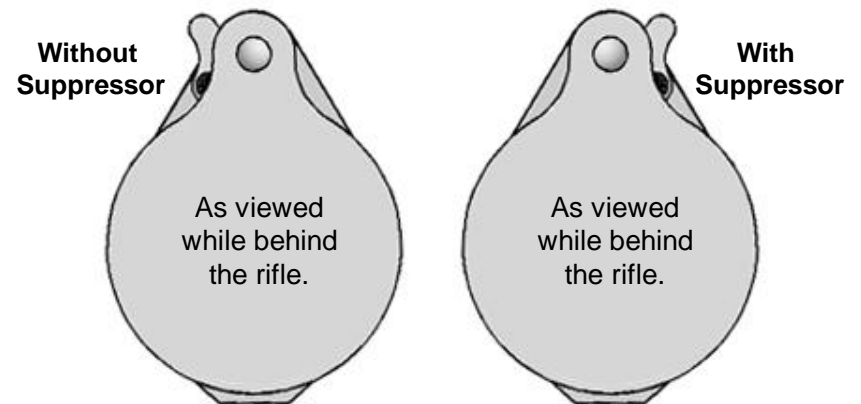
PROCEDURE:

To optimally run the firearm Suppressed:

Using the tip of a live round, reach through the vent hole of the handguard and rotate the PST lever to the right side of the barrel (when behind the rifle).

To optimally run the firearm Unsuppressed:

Using the tip of a live round, reach through the vent hole of the handguard and rotate the PST lever to the left side of the barrel (when behind the rifle).



Section 16: Operation In Adverse Conditions

Operation In Snow-Covered / Freezing Environments:

Always attempt to keep the weapon dry.

Unload and hand function the weapon every 30 minutes to help prevent freezing of functional parts.

Do not lay a warm weapon directly in snow or ice.

When moving a cold rifle into a warm place, condensation (moisture) will form in and on your weapon. If possible, leave your weapon in a protected but cold area outside. When the weapon is brought inside a warm place, it should be disassembled and wiped dry several times as it reaches room temperature.

Keep the insides of magazines and your ammo wiped dry. Moisture will freeze and cause malfunctions. Do not lube the ammo.

The use of a muzzle cap, protective bag, and an overall rifle cover will help protect your rifle. Use them whenever the tactical situation permits.

Operation in Hot, Wet Climate:

Use CLP to clean and lube.

Clean and lube rifle more frequently. Inspect hidden surfaces of the bolt and carrier assembly, upper receiver and chamber/barrel extension (locking lugs), and the lower receiver and receiver extension assembly (buffer tube) for corrosion. Also pay close attention to the spring-loaded detents on the rifle.

To help prevent corrosion, remove handprints with a dry wiping rag. Then lubricate lightly with CLP.

Unload and check the inside of magazines frequently for corrosion and moisture. Wipe ammo dry before reloading.

Use magazine bag, muzzle cap, etc. for protection when the tactical situation permits.

Hot, Dry Climate:

Use CLP to clean and lube.

Hot, dry climates are usually areas containing blowing sand and fine dust. Deserts can be hot during daylight hours and freezing during hours of darkness. Consequently, this harsh environment will severely tax your rifle as well as all other types of equipment. Your rifle's continued operation will depend on your detailed cleaning and lubricating procedures.

Dust and sand will get into the rifle and magazines. This will cause malfunctions. Give the inside areas and functional parts of the rifle a thorough cleaning everyday and after every firing mission.

Corrosion is less likely to form on metal parts in a dry climate; therefore, lubrication should be applied to the internal working surfaces and functional parts only. Use normal amounts of CLP for lubrication (always shake CLP prior to use). Unload and dry ammo and inside of magazines daily. Do not lube magazines.

At all times, however, as a minimum effort to help keep out sand and dust, keep the bolt and ejection port cover closed, a magazine installed in the rifle.